

Daniel Loss

List of Publications by Year in descending order

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472
papers

41,175
citations

2963

93
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2940

189
g-index

480
all docs

480
docs citations

480
times ranked

16388
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Laser-Controlled Real- and Reciprocal-Space Topology in Multiferroic Insulators. Physical Review Letters, 2022, 128, 037201. | 2.9 | 11 |
| 2 | Hole-spin qubits in Ge nanowire quantum dots: Interplay of orbital magnetic field, strain, and growth direction. Physical Review B, 2022, 105, . | 1.1 | 20 |
| 3 | Fractional spin excitations and conductance in the spiral-staircase Heisenberg ladder. Physical Review B, 2022, 105, . | 1.1 | 0 |
| 4 | Metallization and proximity superconductivity in topological insulator nanowires. Physical Review B, 2022, 105, . | 1.1 | 6 |
| 5 | Observation of fractional spin textures in a Heusler material. Nature Communications, 2022, 13, 2348. | 5.8 | 9 |
| 6 | Giant magnetochiral anisotropy from quantum-confined surface states of topological insulator nanowires. Nature Nanotechnology, 2022, 17, 696-700. | 15.6 | 18 |
| 7 | The germanium quantum information route. Nature Reviews Materials, 2021, 6, 926-943. | 23.3 | 185 |
| 8 | Magnetic phase transitions in two-dimensional two-valley semiconductors with in-plane magnetic field. Physical Review B, 2021, 103, . | 1.1 | 4 |
| 9 | Quadrupole spin polarization as signature of second-order topological superconductors. Physical Review B, 2021, 103, . | 1.1 | 22 |
| 10 | Universality of Boundary Charge Fluctuations. Physical Review Letters, 2021, 126, 016803. | 2.9 | 8 |
| 11 | Fermi surface resonance and quantum criticality in strongly interacting Fermi gases. Physical Review B, 2021, 103, . | 1.1 | 5 |
| 12 | Tuning interactions between spins in a superconductor. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 28 |
| 13 | Hole Spin Qubits in Si FinFETs With Fully Tunable Spin-Orbit Coupling and Sweet Spots for Charge Noise. PRX Quantum, 2021, 2, . | 3.5 | 49 |
| 14 | Insulating regime of an underdamped current-biased Josephson junction supporting \mathbb{Z}_3 and \mathbb{Z}_4 parafermions. Physical Review B, 2021, 103, . | 1.1 | 6 |
| 15 | Interaction-Stabilized Topological Magnon Insulator in Ferromagnets. Physical Review X, 2021, 11, . | 2.8 | 40 |
| 16 | Fractional boundary charges with quantized slopes in interacting one- and two-dimensional systems. Physical Review B, 2021, 104, . | 1.1 | 5 |
| 17 | Isotropic and Anisotropic g -Factor Corrections in GaAs Quantum Dots. Physical Review Letters, 2021, 127, 057701. | 2.9 | 2 |
| 18 | Chiral hinge magnons in second-order topological magnon insulators. Physical Review B, 2021, 104, . | 1.1 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Local and nonlocal quantum transport due to Andreev bound states in finite Rashba nanowires with superconducting and normal sections. <i>Physical Review B</i> , 2021, 104, . | 1.1 | 37 |
| 20 | Majorana bound states in topological insulators without a vortex. <i>Physical Review B</i> , 2021, 104, . | 1.1 | 24 |
| 21 | Quantum-coherent nanoscience. <i>Nature Nanotechnology</i> , 2021, 16, 1318-1329. | 15.6 | 73 |
| 22 | Majorana zero modes and their bosonization. <i>Physical Review B</i> , 2020, 102, . | 1.1 | 6 |
| 23 | Superconducting Quantum Interference in Edge State Josephson Junctions. <i>Physical Review Letters</i> , 2020, 125, 157701. | 2.9 | 8 |
| 24 | Magnonic Quadrupole Topological Insulator in Antiskyrmion Crystals. <i>Physical Review Letters</i> , 2020, 125, 207204. | 2.9 | 33 |
| 25 | Kramers pairs of Majorana corner states in a topological insulator bilayer. <i>Physical Review B</i> , 2020, 102, . | 1.1 | 27 |
| 26 | Pinning of Andreev bound states to zero energy in two-dimensional superconductor- semiconductor Rashba heterostructures. <i>Physical Review B</i> , 2020, 102, . | 1.1 | 15 |
| 27 | Hinge states in a system of coupled Rashba layers. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 16 |
| 28 | Chiral magnonic edge states in ferromagnetic skyrmion crystals controlled by magnetic fields. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 47 |
| 29 | Majorana and parafermion corner states from two coupled sheets of bilayer graphene. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 29 |
| 30 | Magnetically confined bound states in Rashba systems. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 11 |
| 31 | Quantum damping of skyrmion crystal eigenmodes due to spontaneous quasiparticle decay. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 14 |
| 32 | Majorana fermions in magnetic chains. <i>Progress in Particle and Nuclear Physics</i> , 2019, 107, 1-19. | 5.6 | 44 |
| 33 | Degeneracy lifting of Majorana bound states due to electron-phonon interactions. <i>Physical Review B</i> , 2019, 99, . | 1.1 | 19 |
| 34 | Spectroscopy of Quantum Dot Orbitals with In-Plane Magnetic Fields. <i>Physical Review Letters</i> , 2019, 122, 207701. | 2.9 | 12 |
| 35 | Topological Magnons and Edge States in Antiferromagnetic Skyrmion Crystals. <i>Physical Review Letters</i> , 2019, 122, 187203. | 2.9 | 97 |
| 36 | Strong electron-electron interactions of a Tomonaga-Luttinger liquid observed in InAs quantum wires. <i>Physical Review B</i> , 2019, 99, . | 1.1 | 16 |

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|----|--|------|-----------|
| 37 | Quantum non-demolition measurement of an electron spin qubit. Nature Nanotechnology, 2019, 14, 555-560. | 15.6 | 52 |
| 38 | Second-Order Topological Superconductivity in γ -Junction Rashba Layers. Physical Review Letters, 2019, 122, 126402. | 2.9 | 124 |
| 39 | Entangling spins in double quantum dots and Majorana bound states. Physical Review B, 2019, 99, . | 1.1 | 15 |
| 40 | Orbital effects of a strong in-plane magnetic field on a gate-defined quantum dot. Physical Review B, 2019, 99, . | 1.1 | 15 |
| 41 | Tunable Magnonic Thermal Hall Effect in Skyrmion Crystal Phases of Ferrimagnets. Physical Review Letters, 2019, 122, 057204. | 2.9 | 56 |
| 42 | Difference in charge and spin dynamics in a quantum dot-lead coupled system. Physical Review B, 2019, 99, . | 1.1 | 4 |
| 43 | Floquet second-order topological superconductor driven via ferromagnetic resonance. Physical Review Research, 2019, 1, . | 1.3 | 53 |
| 44 | Fractional topological superconductivity and parafermion corner states. Physical Review Research, 2019, 1, . | 1.3 | 49 |
| 45 | Metallization of a Rashba wire by a superconducting layer in the strong-proximity regime. Physical Review B, 2018, 97, . | 1.1 | 71 |
| 46 | Majorana Kramers pairs in Rashba double nanowires with interactions and disorder. Physical Review B, 2018, 97, . | 1.1 | 36 |
| 47 | Topological phase detection in Rashba nanowires with a quantum dot. Physical Review B, 2018, 97, . | 1.1 | 50 |
| 48 | Effects of nuclear spins on the transport properties of the edge of two-dimensional topological insulators. Physical Review B, 2018, 97, . | 1.1 | 49 |
| 49 | Majorana Kramers Pairs in Higher-Order Topological Insulators. Physical Review Letters, 2018, 121, 196801. | 2.9 | 162 |
| 50 | Zero-energy Andreev bound states from quantum dots in proximitized Rashba nanowires. Physical Review B, 2018, 98, . | 1.1 | 114 |
| 51 | A fast quantum interface between different spin qubit encodings. Nature Communications, 2018, 9, 5066. | 5.8 | 22 |
| 52 | g -factor of electrons in gate-defined quantum dots in a strong in-plane magnetic field. Physical Review B, 2018, 98, . | 1.1 | 13 |
| 53 | From fractional boundary charges to quantized Hall conductance. Physical Review B, 2018, 98, . | 1.1 | 22 |
| 54 | Renormalization of the quantum dot g -factor in superconducting Rashba nanowires. Physical Review B, 2018, 98, . | 1.1 | 14 |

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|----|--|-----|-----------|
| 55 | Proximity effect in a two-dimensional electron gas coupled to a thin superconducting layer. Beilstein Journal of Nanotechnology, 2018, 9, 1263-1271. | 1.5 | 23 |
| 56 | Hyperfine-phonon spin relaxation in a single-electron GaAs quantum dot. Nature Communications, 2018, 9, 3454. | 5.8 | 53 |
| 57 | Lifetime of Majorana qubits in Rashba nanowires with nonuniform chemical potential. Physical Review B, 2018, 98, . | 1.1 | 24 |
| 58 | Rashba sandwiches with topological superconducting phases. Physical Review B, 2018, 97, . | 1.1 | 14 |
| 59 | Conductance of fractional Luttinger liquids at finite temperatures. Physical Review B, 2018, 98, . | 1.1 | 9 |
| 60 | Boundary spin polarization as a robust signature of a topological phase transition in Majorana nanowires. Physical Review B, 2018, 98, . | 1.1 | 34 |
| 61 | Repetition code of 15 qubits. Physical Review A, 2018, 97, . | 1.0 | 41 |
| 62 | Direct Rashba spin-orbit interaction in Si and Ge nanowires with different growth directions. Physical Review B, 2018, 97, . | 1.1 | 83 |
| 63 | Skyrmions Driven by Intrinsic Magnons. Physical Review Letters, 2018, 120, 237203. | 2.9 | 48 |
| 64 | Spin currents and magnon dynamics in insulating magnets. Journal Physics D: Applied Physics, 2017, 50, 114004. | 1.3 | 49 |
| 65 | Magnonic quantum Hall effect and Wiedemann-Franz law. Physical Review B, 2017, 95, . | 1.1 | 70 |
| 66 | Finite-temperature conductance of strongly interacting quantum wire with a nuclear spin order. Physical Review B, 2017, 95, . | 1.1 | 7 |
| 67 | Proposal for a minimal surface code experiment. Physical Review A, 2017, 96, . | 1.0 | 11 |
| 68 | Detecting topological superconductivity with Josephson junctions. Physical Review B, 2017, 95, . | 1.1 | 25 |
| 69 | Nuclear-spin-induced localization of edge states in two-dimensional topological insulators. Physical Review B, 2017, 96, . | 1.1 | 61 |
| 70 | Finite-size effects in a nanowire strongly coupled to a thin superconducting shell. Physical Review B, 2017, 96, . | 1.1 | 44 |
| 71 | Higher-order spin and charge dynamics in a quantum dot-lead hybrid system. Scientific Reports, 2017, 7, 12201. | 1.6 | 7 |
| 72 | Low-field topological threshold in Majorana double nanowires. Physical Review B, 2017, 96, . | 1.1 | 32 |

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|----|---|------|-----------|
| 73 | Floquet Majorana fermions and parafermions in driven Rashba nanowires. <i>Physical Review B</i> , 2017, 95, . | 1.1 | 81 |
| 74 | Superconducting Grid-Bus Surface Code Architecture for Hole-Spin Qubits. <i>Physical Review Letters</i> , 2017, 118, 147701. | 2.9 | 20 |
| 75 | Spin-dependent coupling between quantum dots and topological quantum wires. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 55 |
| 76 | Destructive interference of direct and crossed Andreev pairing in a system of two nanowires coupled via an s -wave superconductor. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 26 |
| 77 | Three-dimensional fractional topological insulators in coupled Rashba layers. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 14 |
| 78 | Magnonic topological insulators in antiferromagnets. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 101 |
| 79 | Quantum Dynamics of Skyrmions in Chiral Magnets. <i>Physical Review X</i> , 2017, 7, . | 2.8 | 40 |
| 80 | DIII topological superconductivity with emergent time-reversal symmetry. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 24 |
| 81 | Robust Single-Shot Spin Measurement with 99.5% Fidelity in a Quantum Dot Array. <i>Physical Review Letters</i> , 2017, 119, 017701. | 2.9 | 45 |
| 82 | Long-range interaction between charge and spin qubits in quantum dots. <i>Physical Review B</i> , 2017, 95, . | 1.1 | 11 |
| 83 | Spin and charge signatures of topological superconductivity in Rashba nanowires. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 52 |
| 84 | Role of the electron spin in determining the coherence of the nuclear spins in a quantum dot. <i>Nature Nanotechnology</i> , 2016, 11, 885-889. | 15.6 | 32 |
| 85 | Probing atomic structure and Majorana wavefunctions in mono-atomic Fe chains on superconducting Pb surface. <i>Npj Quantum Information</i> , 2016, 2, . | 2.8 | 283 |
| 86 | Fractional boundary charges in quantum dot arrays with density modulation. <i>Physical Review B</i> , 2016, 94, . | 1.1 | 32 |
| 87 | Heavy-Hole States in Germanium Hut Wires. <i>Nano Letters</i> , 2016, 16, 6879-6885. | 4.5 | 69 |
| 88 | Field-dependent superradiant quantum phase transition of molecular magnets in microwave cavities. <i>Semiconductor Science and Technology</i> , 2016, 31, 094003. | 1.0 | 9 |
| 89 | Persistent Skyrmion Lattice of Noninteracting Electrons with Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2016, 117, 226401. | 2.9 | 37 |
| 90 | Universal quantum computation with hybrid spin-Majorana qubits. <i>Physical Review B</i> , 2016, 94, . | 1.1 | 81 |

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|-----|---|------|-----------|
| 91 | Quantum computing with parafermions. Physical Review B, 2016, 93, . | 1.1 | 47 |
| 92 | Topological phases of inhomogeneous superconductivity. Physical Review B, 2016, 93, . | 1.1 | 49 |
| 93 | Josephson junction through a disordered topological insulator with helical magnetization. Physical Review B, 2016, 93, . | 1.1 | 79 |
| 94 | Majorana bound states in magnetic skyrmions. Physical Review B, 2016, 93, . | 1.1 | 99 |
| 95 | Dephasing due to Nuclear Spins in Large-Amplitude Electric Dipole Spin Resonance. Physical Review Letters, 2016, 116, 066806. | 2.9 | 11 |
| 96 | Topological Floquet Phases in Driven Coupled Rashba Nanowires. Physical Review Letters, 2016, 116, 176401. | 2.9 | 98 |
| 97 | Long-distance entanglement of spin qubits via quantum Hall edge states. Physical Review B, 2016, 93, . | 1.1 | 22 |
| 98 | From coupled Rashba electron- and hole-gas layers to three-dimensional topological insulators. Physical Review B, 2016, 93, . | 1.1 | 9 |
| 99 | Optimal geometry of lateral GaAs and Si/SiGe quantum dots for electrical control of spin qubits. Physical Review B, 2016, 93, . | 1.1 | 15 |
| 100 | Chiral and nonchiral edge states in quantum Hall systems with charge density modulation. Physical Review B, 2016, 93, . | 1.1 | 8 |
| 101 | Quantum memories at finite temperature. Reviews of Modern Physics, 2016, 88, . | 16.4 | 131 |
| 102 | Electrically tunable hole g -factor of an optically active quantum dot for fast spin rotations. Physical Review B, 2015, 91, . | 1.1 | 35 |
| 103 | Voltage-induced conversion of helical to uniform nuclear spin polarization in a quantum wire. Physical Review B, 2015, 91, . | 1.1 | 8 |
| 104 | Fast long-distance control of spin qubits by photon-assisted cotunneling. Physical Review B, 2015, 92, . | 1.1 | 19 |
| 105 | Inhibition of dynamic nuclear polarization by heavy-hole noncollinear hyperfine interactions. Physical Review B, 2015, 92, . | 1.1 | 3 |
| 106 | Impurity-induced quantum phase transitions and magnetic order in conventional superconductors: Competition between bound and quasiparticle states. Physical Review B, 2015, 92, . | 1.1 | 24 |
| 107 | Wiedemann-Franz law for magnon transport. Physical Review B, 2015, 92, . | 1.1 | 33 |
| 108 | Supercurrent reversal in two-dimensional topological insulators. Physical Review B, 2015, 92, . | 1.1 | 6 |

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|-----|--|------|-----------|
| 109 | Antiferromagnetic nuclear spin helix and topological superconductivity in C ₁₃ nanotubes. Physical Review B, 2015, 92, . | 1.1 | 33 |
| 110 | Proximity-Induced $\tilde{\epsilon}$ Josephson Junctions in Topological Insulators and Kramers Pairs of Majorana Fermions. Physical Review Letters, 2015, 115, 237001. | 2.9 | 68 |
| 111 | Integer and fractional quantum anomalous Hall effect in a strip of stripes model. Physical Review B, 2015, 91, . | 1.1 | 42 |
| 112 | Long-distance entanglement of soliton spin qubits in gated nanowires. Physical Review B, 2015, 92, . | 1.1 | 11 |
| 113 | Fractional charge and spin states in topological insulator constrictions. Physical Review B, 2015, 92, . | 1.1 | 48 |
| 114 | Parafermions in a Kagome Lattice of Qubits for Topological Quantum Computation. Physical Review X, 2015, 5, . | 2.8 | 10 |
| 115 | Spin and orbital magnetic response on the surface of a topological insulator. Physical Review B, 2015, 91, . | 1.1 | 38 |
| 116 | Fermionic and Majorana bound states in hybrid nanowires with non-uniform spin-orbit interaction. European Physical Journal B, 2015, 88, 1. | 0.6 | 76 |
| 117 | Magnon transport through microwave pumping. Physical Review B, 2015, 92, . | 1.1 | 22 |
| 118 | Superconducting gap renormalization around two magnetic impurities: From Shiba to Andreev bound states. Physical Review B, 2015, 92, . | 1.1 | 47 |
| 119 | Improved HDRG decoders for qudit and non-Abelian quantum error correction. New Journal of Physics, 2015, 17, 035017. | 1.2 | 25 |
| 120 | High-efficiency resonant amplification of weak magnetic fields for single spin magnetometry at room temperature. Nature Nanotechnology, 2015, 10, 541-546. | 15.6 | 18 |
| 121 | NMR response of nuclear-spin helix in quantum wires with hyperfine and spin-orbit interaction. Physical Review B, 2014, 90, . | 1.1 | 9 |
| 122 | Conductance behavior in nanowires with spin-orbit interaction: A numerical study. Physical Review B, 2014, 90, . | 1.1 | 41 |
| 123 | Majorana fermions in Ge/Si hole nanowires. Physical Review B, 2014, 90, . | 1.1 | 62 |
| 124 | Time-reversal invariant parafermions in interacting Rashba nanowires. Physical Review B, 2014, 90, . | 1.1 | 150 |
| 125 | Low-energy properties of fractional helical Luttinger liquids. Physical Review B, 2014, 89, . | 1.1 | 23 |
| 126 | Josephson and persistent spin currents in Bose-Einstein condensates of magnons. Physical Review B, 2014, 90, . | 1.1 | 64 |

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| 127 | Breakdown of surface-code error correction due to coupling to a bosonic bath. Physical Review A, 2014, 89, . | 1.0 | 18 |
| 128 | Kramers pairs of Majorana fermions and parafermions in fractional topological insulators. Physical Review B, 2014, 90, . | 1.1 | 111 |
| 129 | Renormalization of anticrossings in interacting quantum wires with Rashba and Dresselhaus spin-orbit couplings. Physical Review B, 2014, 89, . | 1.1 | 22 |
| 130 | Single-spin manipulation in a double quantum dot in the field of a micromagnet. Physical Review B, 2014, 90, . | 1.1 | 21 |
| 131 | Characterization of Spin-Orbit Interactions of GaAs Heavy Holes Using a Quantum Point Contact. Physical Review Letters, 2014, 113, 046801. | 2.9 | 25 |
| 132 | Nuclear spin relaxation in Rashba nanowires. Physical Review B, 2014, 90, . | 1.1 | 10 |
| 133 | RKKY interaction on surfaces of topological insulators with superconducting proximity effect. Physical Review B, 2014, 90, . | 1.1 | 43 |
| 134 | Error Correction for Non-Abelian Topological Quantum Computation. Physical Review X, 2014, 4, . | 2.8 | 28 |
| 135 | Efficient Markov chain Monte Carlo algorithm for the surface code. Physical Review A, 2014, 89, . | 1.0 | 52 |
| 136 | Molecular Magnets for Quantum Information Processing. Nanoscience and Technology, 2014, , 275-296. | 1.5 | 5 |
| 137 | Transport Signatures of Fractional Fermions in Rashba Nanowires. Physical Review Letters, 2014, 112, 196803. | 2.9 | 39 |
| 138 | Strongly interacting holes in Ge/Si nanowires. Physical Review B, 2014, 90, . | 1.1 | 9 |
| 139 | Effective quantum-memory Hamiltonian from local two-body interactions. Physical Review A, 2014, 90, . | 1.0 | 11 |
| 140 | Proposal for a Quantum Magnetic R - C Circuit. Physical Review Letters, 2014, 113, 037201. | 2.9 | 9 |
| 141 | Acoustic phonons and strain in core/shell nanowires. Physical Review B, 2014, 90, . | 1.1 | 20 |
| 142 | Structure factor of interacting one-dimensional helical systems. Physical Review B, 2014, 89, . | 1.1 | 5 |
| 143 | Phonon-mediated decay of singlet-triplet qubits in double quantum dots. Physical Review B, 2014, 89, . | 1.1 | 37 |
| 144 | Integer and fractional quantum Hall effect in a strip of stripes. European Physical Journal B, 2014, 87, 1. | 0.6 | 52 |

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|-----|---|-----|-----------|
| 145 | Helical nuclear spin order in a strip of stripes in the quantum Hall regime. <i>European Physical Journal B</i> , 2014, 87, 1. | 0.6 | 40 |
| 146 | Quantum charge pumping through fractional fermions in charge density modulated quantum wires and Rashba nanowires. <i>Physical Review B</i> , 2014, 90, . | 1.1 | 15 |
| 147 | Parafermions in an Interacting Nanowire Bundle. <i>Physical Review Letters</i> , 2014, 112, 246403. | 2.9 | 95 |
| 148 | Anisotropic g factor in InAs self-assembled quantum dots. <i>Physical Review B</i> , 2014, 89, . | 1.1 | 13 |
| 149 | Ultrafast magnon transistor at room temperature. <i>Physical Review B</i> , 2013, 88, . | 1.1 | 6 |
| 150 | Strongly anisotropic spin response as a signature of the helical regime in Rashba nanowires. <i>Physical Review B</i> , 2013, 88, . | 1.1 | 24 |
| 151 | Helical nuclear spin order in two-subband quantum wires. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 23 |
| 152 | Long-Distance Entanglement of Spin Qubits via Ferromagnet. <i>Physical Review X</i> , 2013, 3, . | 2.8 | 69 |
| 153 | RKKY interaction in carbon nanotubes and graphene nanoribbons. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 80 |
| 154 | Magnetic texture-induced thermal Hall effects. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 86 |
| 155 | Giant Spin-Orbit Interaction Due to Rotating Magnetic Fields in Graphene Nanoribbons. <i>Physical Review X</i> , 2013, 3, . | 2.8 | 81 |
| 156 | Prospects for Spin-Based Quantum Computing in Quantum Dots. <i>Annual Review of Condensed Matter Physics</i> , 2013, 4, 51-81. | 5.2 | 304 |
| 157 | Fractional Fermions with Non-Abelian Statistics. <i>Physical Review Letters</i> , 2013, 110, 126402. | 2.9 | 49 |
| 158 | Topological Superconductivity and Majorana Fermions in RKKY Systems. <i>Physical Review Letters</i> , 2013, 111, 186805. | 2.9 | 416 |
| 159 | Correlations between Majorana Fermions Through a Superconductor. <i>Physical Review Letters</i> , 2013, 111, 056802. | 2.9 | 74 |
| 160 | Spintronics in MoS ₂ monolayer quantum wires. <i>Physical Review B</i> , 2013, 88, . | 1.1 | 135 |
| 161 | Vortex loops and Majoranas. <i>Journal of Mathematical Physics</i> , 2013, 54, 112203. | 0.5 | 6 |
| 162 | Topological Edge States and Fractional Quantum Hall Effect from Umklapp Scattering. <i>Physical Review Letters</i> , 2013, 111, 196401. | 2.9 | 41 |

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|-----|--|-----|-----------|
| 163 | Dynamic generation of topologically protected self-correcting quantum memory. Physical Review A, 2013, 87, . | 1.0 | 17 |
| 164 | Circuit QED with hole-spin qubits in Ge/Si nanowire quantum dots. Physical Review B, 2013, 88, . | 1.1 | 85 |
| 165 | Magnetically Defined Qubits on 3D Topological Insulators. Physical Review Letters, 2013, 111, 106802. | 2.9 | 70 |
| 166 | Enhanced thermal stability of the toric code through coupling to a bosonic bath. Physical Review A, 2013, 88, . | 1.0 | 28 |
| 167 | Local spin susceptibilities of low-dimensional electron systems. Physical Review B, 2013, 88, . | 1.1 | 31 |
| 168 | Towards a realistic transport modeling in a superconducting nanowire with Majorana fermions. Physical Review B, 2013, 87, . | 1.1 | 301 |
| 169 | Tunable g factor and phonon-mediated hole spin relaxation in Ge/Si nanowire quantum dots. Physical Review B, 2013, 87, . | 1.1 | 53 |
| 170 | Majorana qubit decoherence by quasiparticle poisoning. Physical Review B, 2012, 85, . | 1.1 | 227 |
| 171 | High Threshold Error Correction for the Surface Code. Physical Review Letters, 2012, 109, 160503. | 2.9 | 67 |
| 172 | Decoherence of Majorana qubits by noisy gates. Physical Review B, 2012, 86, . | 1.1 | 65 |
| 173 | Incoherent dynamics in the toric code subject to disorder. Physical Review A, 2012, 85, . | 1.0 | 30 |
| 174 | Hyperfine-induced decoherence in triangular spin-cluster qubits. Physical Review B, 2012, 86, . | 1.1 | 41 |
| 175 | Cotunneling in the $\nu = 5/2$ quantum Hall regime. Physical Review B, 2012, 86, . | 1.1 | 0 |
| 176 | Effect of strain on hyperfine-induced hole-spin decoherence in quantum dots. Physical Review B, 2012, 85, . | 1.1 | 21 |
| 177 | Rashba spin orbit interaction in a quantum wire superlattice. Physical Review B, 2012, 85, . | 1.1 | 13 |
| 178 | Publisher's Note: Rashba spin orbit interaction in a quantum wire superlattice [Phys. Rev. B85, 045306 (2012)]. Physical Review B, 2012, 85, . | 1.1 | 0 |
| 179 | Majorana states in inhomogeneous spin ladders. Physical Review B, 2012, 86, . | 1.1 | 30 |
| 180 | Self-correcting quantum memory with a boundary. Physical Review A, 2012, 86, . | 1.0 | 19 |

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| 181 | Transition from Fractional to Majorana Fermions in Rashba Nanowires. <i>Physical Review Letters</i> , 2012, 109, 236801. | 2.9 | 147 |
| 182 | Exchange-based CNOT gates for singlet-triplet qubits with spin-orbit interaction. <i>Physical Review B</i> , 2012, 86, . | 1.1 | 46 |
| 183 | Localized End States in Density Modulated Quantum Wires and Rings. <i>Physical Review Letters</i> , 2012, 108, 136803. | 2.9 | 51 |
| 184 | Long-Distance Spin-Spin Coupling via Floating Gates. <i>Physical Review X</i> , 2012, 2, . | 2.8 | 74 |
| 185 | Helical states in curved bilayer graphene. <i>Physical Review B</i> , 2012, 86, . | 1.1 | 57 |
| 186 | Singlet-triplet splitting in double quantum dots due to spin-orbit and hyperfine interactions. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 80 |
| 187 | Thin-Film Magnetization Dynamics on the Surface of a Topological Insulator. <i>Physical Review Letters</i> , 2012, 108, 187201. | 2.9 | 112 |
| 188 | Electric-field-induced Majorana Fermions in Armchair Carbon Nanotubes. <i>Physical Review Letters</i> , 2012, 108, 196804. | 2.9 | 93 |
| 189 | Frequency-dependent transport through a spin chain. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 5 |
| 190 | Ferromagnetic order of nuclear spins coupled to conduction electrons: A combined effect of electron-electron and spin-orbit interactions. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 24 |
| 191 | Composite Majorana fermion wave functions in nanowires. <i>Physical Review B</i> , 2012, 86, . | 1.1 | 176 |
| 192 | Crossed Andreev reflection in quantum wires with strong spin-orbit interaction. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 15 |
| 193 | libCreme: An optimization library for evaluating convex-roof entanglement measures. <i>Computer Physics Communications</i> , 2012, 183, 155-165. | 3.0 | 7 |
| 194 | Quantum memory coupled to cavity modes. <i>Physical Review B</i> , 2011, 83, . | 1.1 | 19 |
| 195 | Rectification of spin currents in spin chains. <i>Physical Review B</i> , 2011, 84, . | 1.1 | 26 |
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